

WHAT IS CLAIMED IS:

1. An integrated controller for use with a part-forming machine and a sensory device, comprising:
 - a computer having at least one data interface;
 - a program for controlling the part-forming machine; and
 - a program for analyzing data from the sensory device and for communicating with said part-forming machine program, wherein the sensory device is functionally communicatable with said at least one data interface of said computer, and wherein the part-forming machine is functionally communicatable with said at least one data interface of said computer.
2. The integrated controller of Claim 1, further comprising means for displaying information, said display means being in communication with said computer.
3. The integrated controller of Claim 1, wherein said at least one data interface of said computer is a bus.
4. The integrated controller of Claim 1, wherein said at least one data interface of said computer is a USB port.
5. The integrated controller of Claim 1, wherein said at least one data interface of said computer is a serial port.

6. The integrated controller of Claim 1, wherein said at least one data interface of said computer is a parallel port.

7. The integrated controller of Claim 1, wherein said computer has a first data interface and a second data interface, wherein the sensory device is functionally communicatable with said first data interface of said computer, and wherein the part-forming machine is functionally communicatable with said second data interface of said computer.

8. An integrated controller for use with an injection-molding machine and a sensory device, comprising:
a computer having a data interface;
a program for analyzing data from the sensory device and controlling the injection-molding machine and the sensory device in response to the sensory device data; and
means for displaying information, said display means being in communication with said computer,
wherein the sensory device is functionally communicatable with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

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9. The integrated controller of Claim 8, wherein said data interface of said computer is a bus.

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10. The integrated controller of Claim 8, wherein said data interface of said computer is a USB port.

11. The integrated controller of Claim 8, wherein said data interface of said computer is a serial port.

12. The integrated controller of Claim 8, wherein said data interface of said computer is a parallel port.

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13. The integrated controller of Claim 8, wherein said computer has a first data interface and a second data interface, wherein the sensory device is functionally communicatable with said first data interface of said computer, and wherein the part-forming machine is functionally communicatable with said second data interface of said computer.

14. The integrated controller of Claim 8, wherein said display device is a monitor.

15. The integrated controller of Claim 8, wherein said display device is a printer.

Sub A5 > 16. An integrated controller for use with an part-forming machine, comprising:

a computer having a data interface;

a sensory device in communication with said data interface of said computer, said sensory device outputting sensory data to said computer via said data interface;

a program for analyzing said sensory data from said sensory device and controlling the part-forming machine and said sensory device in response to said sensory data; and

means for displaying information, said display means in communication with said computer, wherein said sensory device functionally communicates with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

17. The integrated controller of Claim 16, wherein said sensory device is at least one vision sensor.

18. The integrated controller of Claim 16, wherein said sensory device is at least one infrared sensor.

19. The integrated controller of Claim 16, wherein said sensory device is at least one air pressure sensor.

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20. The integrated controller of Claim 16, wherein said sensory device is at least one vacuum sensor.

21. The integrated controller of Claim 16, wherein said sensory device is at least one ultrasonic sensor.

22. The integrated controller of Claim 16, wherein said display device is a monitor.

23. The integrated controller of Claim 16, wherein said display device is a printer.

24. The method of controlling a part-forming machine, comprising the steps of:

a. using a sensory device to collect data regarding the condition of the part-forming machine;

b. communicating said data with a computer having a program to analyze said data and to generate data commands for controlling the part-forming machine; and

c. communicating said data commands to the part-forming machine.

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